



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

3839

C45-OH
Job Sheet 176953



Part No: C45-OH

Job Qty: 1 ea

Part Name: C-Series Remote Hook 4,500 lbs Lift Capacity



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 5/3/18

Job Tracking No: RA217 SN: AC09002

Due Date: 5/18/18

Created By: Michelle Gagnon-Donovan

Type: Return

Description:

Note: O&OPM-C45 REV.4 IPP REV: A 18.04.20 NEW ISSUE DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup	Run	Workcenter / Supplier	Lead Time	
					hrs	Hrs			
100	Start up Operation	1 Ea	5/18/18	5/18/18	0.00	0.00	Start Up Small Fab-4		SB
110	Small Fab	1 pcs	5/18/18	5/18/18	0.00	1.00	Small Fab-9		AP
120	QC	1 pcs	5/18/18	5/18/18	0.00	0.00	QC5		SB
130	Customer Acceptance	1 pcs	5/18/18	5/18/18	0.00	0.00			DAS
140	Outsource	1 pcs	5/18/18	5/18/18			GRO002-VC	JUN 12 2018	13
150	Packaging	1 pcs	5/18/18	5/18/18	0.00	0.00	Packaging2		9-89 P.O. 040117
160	QC	1 pcs	5/18/18	5/18/18	0.00	0.00	QC6		AP 1806/13
170	Small Fab	1 pcs	5/18/18	5/18/18	0.00	1.00	Small Fab-9		9-89 AP
180	QC	1 pcs	5/18/18	5/18/18	0.00	0.00	QC5		DAS
185	DC	1 pcs	5/18/18	5/18/18	0.00	0.00	DC		21 1806-14
190	Packaging	1 pcs	5/18/18	5/18/18	0.00	0.00	Packaging3-2		9-89
200	QC21-FG	1 Ea	5/18/18	5/18/18	0.00	0.00	QC21		DAS 1806-14

Part Op 110 - TEST ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART.

Descriptions: 170 - RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY

185 - Photocopy blue file and create labels

GREASE AEROSHELL NO. 7 (M138724) LOCTITE 620 (M138828) SAF-T-EZE (M128063)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C45-AR	C-Series Remote Hook 4,500 lbs Lift Capacity	1 Ea (1 ea)	100-Start up Operation	
188-FPSS-1/4-20-3/8	Set Screw	2 Ea (2 ea)	170-Small Fab	5075264
188-FSCS-1032-5/8	Screw	4 Ea (4 ea)	170-Small Fab	5066767
2595K2	Heat Shrink	1 ft (1 ea)	170-Small Fab	5049360
32448	16-14 AWG Knife Connector	2 Ea (2 ea)	170-Small Fab	50411618
600.1309-A	Label	1 Ea (1 ea)	170-Small Fab	5029592
600.1312	Caution Sticker	1 Ea (1 ea)	170-Small Fab	5072105
AN4-23A	Bolt	2 Ea (2 ea)	170-Small Fab	50F123434-40
AN5-21A	Bolt	4 Ea (4 ea)	170-Small Fab	5071344
C45-11	Stain Relief Connector	1 Ea (1 ea)	170-Small Fab	
C2-14-2	Label Rivets	2 Ea (2 ea)	170-Small Fab	5057170
C45-11	Manual Knob Release	1 Ea (1 ea)	170-Small Fab	
C45-10-1	Spring Pin	1 Ea (1 ea)	170-Small Fab	
C45-10-2	Lock Spring	1 Ea (1 ea)	170-Small Fab	5048643
C45-11-1	Side Plate Solenoid	1 Ea (1 ea)	170-Small Fab	



Container No: S069112



Part: C45

Job No: 176953

Serial No/Batch: S069112

Revision: 4

Inspector:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Date: 05/07/18

JAL:
SC
ES

CHANGE →	C45-11-2	Locating Pin	2 Ea (2 ea)	170-Small Fab	5061603	506225	REF TO J.
	C45-12-1	Lock Bushing	2 Ea (2 ea)	170-Small Fab		5046506	
	C45-12-2	• Lock Shaft	1 Ea (1 ea)	170-Small Fab			
	C45-12-3	Lock	1 Ea (1 ea)	170-Small Fab		5029301	
	C45-12-4	• Lock Roller	1 Ea (1 ea)	170-Small Fab	E	5029302	171993
	C45-12-5	• Lock Roller Pin	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-12-6	Retaining Ring	2 Ea (2 ea)	170-Small Fab	E	5069580	
	C45-13-1	Keeper Bushing	2 Ea (2 ea)	170-Small Fab		5029305	
CHANGE →	C45-13-2	Spacer	2 Ea (2 ea)	170-Small Fab	E	5029306	
	C45-13-3	• Keeper Shaft	1 Ea (1 ea)	170-Small Fab	E	5029303	
	C45-13-4	Keeper	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-13-5	Keeper Spring	1 Ea (1 ea)	170-Small Fab	E	5029303	
	C45-2-1	Sideplate - MRK	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-3-1	Radial Bearing	2 Ea (2 ea)	170-Small Fab	E	5029303	
	C45-3-10	Latch Shaft	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-3-11	Actuator	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-3-12	DU Bearing	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-3-2	Latch Roller Pin	1 pcs (1 ea)	170-Small Fab		5029303	
	C45-3-2-1	Snap Ring	2 Ea (2 ea)	170-Small Fab	E	5029303	
	C45-3-3	• Latch Roller	1 Ea (1 ea)	170-Small Fab	E	5029303	
	C45-3-4	• Pin	2 Ea (2 ea)	170-Small Fab	E	5029303	
	C45-3-4-1	Retaining Ring	4 Ea (4 ea)	170-Small Fab		5029303	
	C45-3-5	Spacer	2 Ea (2 ea)	170-Small Fab	E	5029303	
	C45-3-6	Latch	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-3-7	Link	1 pcs (1 ea)	170-Small Fab		5029303	
	C45-3-8A	Actuator Shaft Bushing	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-3-8B	Actuator Shaft Bushing	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-3-9	Lever Spring	1 pcs (1 ea)	170-Small Fab	E	5029303	
	C45-4-1	Trunnion Bushing	2 Ea (2 ea)	170-Small Fab		5029303	
	C45-4-4A	C45 Load Beam Assembly	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-4-5	• Loadbeam Spacer	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-5-1	Lever Stop Pin	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-5-2	Lever Stop	1 pcs (1 ea)	170-Small Fab		5029303	
	C45-7-1	LOADBEAM BUMPER	1 Ea (1 ea)	170-Small Fab	E	5029303	
	C45-7-2	Lock Bumper	2 Ea (2 ea)	170-Small Fab		5029303	
	C45-8-1-2	Solenoid Nut	2 Ea (2 ea)	170-Small Fab		5029303	
	C45-8-2	Solenoid	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-8-4	Solenoid Cover Gasket	1 Ea (1 ea)	170-Small Fab	E	5029303	
	C45-8-5	Solenoid Cover	1 Ea (1 ea)	170-Small Fab		5029303	
	C45-9-1	Clock Spring Cover	1 pcs (1 ea)	170-Small Fab		5029303	
	C45-9-2	Clock Spring	1 pcs (1 ea)	170-Small Fab		5029303	
	EL-PLUG-M	3-Prong Male Spade Plug	1 Ea (1 ea)	170-Small Fab		5029303	
	EL314-SJTOW	3 Wire	1 ft (1 ea)	170-Small Fab		5029303	
	MS21044N5	Nut	4 Ea (4 ea)	170-Small Fab		5029303	
	MS27039-4-08	Screw	1 Ea (1 ea)	170-Small Fab		5029303	
	NAS1149F0563P	Washer	8 Ea (8 ea)	170-Small Fab		5029303	
	NAS1149F0632P	Washer	3 Ea (3 ea)	170-Small Fab		5029303	

463P

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Start up Operation	C45	1	0	0
170-Small Fab	188-FPSS-1/4-20-3/8	2	182	0
	188-FSCS-1032-5/8	4	257	0
	2595K2	1	30	0
	32448	2	173	0
	600.1309-A	1	0	0
	600.1312	1	0	0
	AN4-23A	2	600	0
	AN5-21A	4	53	0
	C10-41	1	21	0
	C2-14-2	2	264	0
	C45-1-1	1	0	0
	C45-10-1	1	94	0
	C45-10-2	1	16	0
	C45-11-1	1	0	0
	C45-11-2	2	42	0
	C45-12-1	2	22	0
	C45-12-2	1	14	0
	C45-12-3	1	0	0
	C45-12-4	1	0	0
	C45-12-5	1	0	0
	C45-12-6	2	48	0
	C45-13-1	2	0	0
	C45-13-2	2	86	0
	C45-13-3	1	0	0
	C45-13-4	1	0	0
	C45-13-5	1	95	0
	C45-2-1	1	0	0
	C45-3-1	2	26	0
	C45-3-10	1	15	0
	C45-3-11	1	13	0
	C45-3-12	1	17	0
	C45-3-2	1	0	0
	C45-3-2-1	2	58	0
	C45-3-3	1	0	0
	C45-3-4	2	24	0
	C45-3-4-1	4	164	0
	C45-3-5	2	80	0
	C45-3-6	1	3	0
	C45-3-7	1	0	0
	C45-3-8A	1	0	0
	C45-3-8B	1	0	0
	C45-3-9	1	0	0
	C45-4-1	2	2	0
	C45-4-4A	1	0	0
	C45-4-5	1	14	0
	C45-5-1	1	16	0
	C45-5-2	1	0	0
	C45-7-1	1	0	0
	C45-7-2	2	2	0
	C45-8-1-2	2	0	0
	C45-8-2	1	0	0
	C45-8-4	1	1	0
	C45-8-5	1	14	0
	C45-9-1	1	0	0
	C45-9-2	1	0	0
	EL-PLUG-M	1	56	0
	EL314-SJTOW	1	1,007	0
	MS21044N5	4	99	0
	MS27039-4-08	1	86	0
	NAS1149F0563P	8	753	0
	NAS1149F0632P	3	643	0

Part Specifications

Specifications could not be found.

Inspection Sheet Complete **RA217**

Part Number	Batch / Serial #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Customer QA Ref #		
							Disposition	Work order #	Work order Instructions
C45	AC09002	1	☐ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED	S047633	OVERHAUL
SWA6A-2	AC10001	1	☐ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED	S047634	OVERHAUL
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			
0		0	☐ Yes	☐ Yes	☐ Yes	☐ Yes			

QC Approval: _____ 0

Date: 0-Jan-00 _____



Remote Cargo Hook Test Form

C45

Work Order 176953

Customer _____

Serial Number AC09002

Date 2018/06/04

— PRETEST —

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/fail
1	11,250	Static Hold	Hold for two Minutes and reduce load to zero	N/A	PASS
10 3	2,250	Electircal, 25 volts	No "hang ups" permitted	N/A	PASS
2 1	4,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.0 A	FAIL *
2	3,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.0 A	PASS
2 1	2,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.0 A	PASS
2 1	1,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.0 A	PASS
2 1	500	Electircal, 22 volts	Current shall not exceed 12.4A	9.0 A	PASS
1	4,500	Electircal, 20 volts	Current shall not exceed 11.3A	8.0 A	FAIL *
1	4,500	Electircal, 28 volts	Current shall not exceed 15.8A	11.0 A	PASS
1	4,500	Manual		N/A	PASS (HARD)
1	4,500	Impact Test	Impact shackle 10 times, shall not release	N/A	PASS
1	N/A	Solenoid Ohms	Shall not exceed 1.7-2.0 Ohms	1.8 Ohms	PASS
1	N/A	Electircal Continuity	Across both wires	N/A	PASS

Test Conducted By: ALAIN PATRY
Technician

Signature: [Signature]
QC 5 Small FAB / QA

Submit



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040117**

Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

PO No: PO040117
PO Date: 6/5/18
Due Date: 6/13/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	177399	C45-K-OH	C-Series Remote Hook 4,500 lbs Lift Capacity - Keeperless	Firmed	6/13/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
2	176954	SWA6A-2-OH	Electric Swivel 6,000 lb Safe Work Load (2,721 kg)	Firmed	6/13/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
3	176953	C45-OH	C-Series Remote Hook 4,500 lbs Lift Capacity	Firmed	6/13/18	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
Grand Total:										\$534.00

Order Notes

ca'd APR 10/13

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/12/18 10:27 AM dart.lavoie.chantal

**skyservice****Work Order Traveler**

Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO36275	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: PO040117
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	

Task: UNSCHEDULED	Sequence: 1
---------------------------------	--------------------

Work Required:

CARRY OUT NDT ON :

2 C- SERIES REMOTE HOOK , P/N : C45-K-OH , J/S# : 177399 , & 176953

1 ELECTRIC SWIVEL , P/N : SWA6A-2-OH , J/S# : 176954

Action Taken:	Date:	Initial/Stamp:
LIQUID PENETRANT & MAGNETIC PARTICLES INSPECTION CARRIED OUT AS PER ASTM E-1444M-16 & E-1417M-16 NO CRACK FOUND MAGBENCH S/N 208123 CAL DUE: 7-JULY-2018 POWDER 14A BATCH# MPO13600 CARRIER II BATCH# MPO13923 BLACK LIGHT - M20186 PEN ZL-37, MPO13139, CLEANER SKC-S MPO15030 , DEV. MPO15030 , EMU.(ZR-10B,MPO15896) BLACK LIGHT - M20186	JUN 06 2018	LM DOT-APP 278 53-89 DAS 38 9-89

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp	Date:
Name: LUCA MARCHETTA	DOT-APP 278 53-89	JUN 06 2018



Remote Cargo Hook Test Form

C45

Work Order 5069112

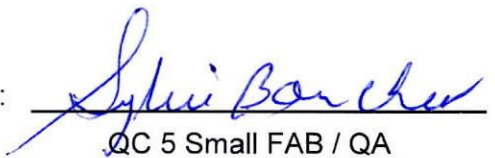
Customer _____

Serial Number AC09002

Date 13 jun 2018

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/fail
1	11,250	Static Hold	Hold for two Minutes and reduce load to zero	N/A	Pass
10	2,250	Electircal, 25 volts	No "hang ups" permitted	N/A	Pass
2	4,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.4 A	Pass
2	3,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.4 A	Pass
2	2,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.1 A	Pass
2	1,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.1 A	Pass
2	500	Electircal, 22 volts	Current shall not exceed 12.4A	9.1 A	Pass
1	4,500	Electircal, 20 volts	Current shall not exceed 11.3A	8.4 A	Pass
1	4,500	Electircal, 28 volts	Current shall not exceed 15.8A	11.5 A	Pass
1	4,500	Manual		N/A	Pass
1	4,500	Impact Test	Impact shackle 10 times, shall not release	N/A	Pass
1	N/A	Solenoid Ohms	Shall not exceed 1.7-2.0 Ohms	2.0 Ohms	Pass
1	N/A	Electircal Continuity	Across both wires	N/A	Pass

Test Conducted By: Luc Larivière
Technician

Signature: 
QC 5 Small FAB / QA

Submit